

ABSTRACT

An open circuit detection apparatus is provided for detecting whether a connection is closed between a local node and a remote node having a known impedance.

A ping source is connected to the local node. The ping source has an output for
 5 transmitting an address unique to the remote node and an input for sensing the impedance
 of the remote node. A test circuit is connected to the remote node. The test circuit has an
 address decoder for receiving the address from the output. The address decoder has a
 unique address and asserts a control signal upon the address matching the unique address
 of said address decoder. An impedance-varying device is responsive to the control signal
 10 and effects a change in the impedance of the remote node. The change in the impedance
 of the remote node is sensed by the input of the ping source.